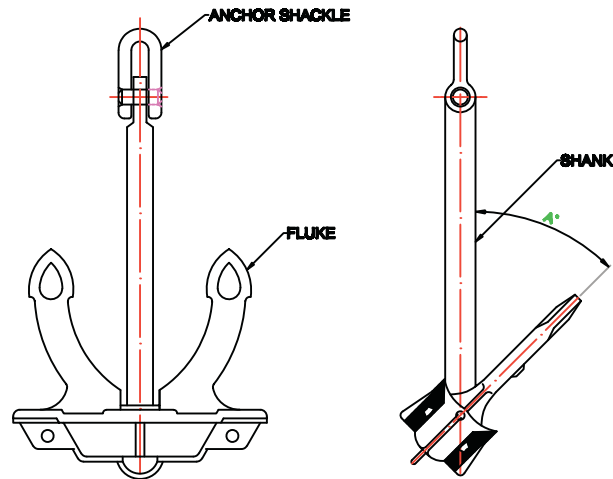




MORDEC™ Anchors

Common Terms used for Anchor



ANCHORS: Mooring anchors serves as a securing point for vessels to keep them in position off-shore or in a river. To do this, they must dig into the bed and their shape is designed for this purpose. All the principal anchors used today are stockless type.

TANDEM ANCHORING: Operation consisting of connecting one anchor to another in order to distribute the anchoring points and this strengthens a permanent anchorage.

BLOCK: Heavy block located at the base of the anchor and intended to distance the centre of gravity from the anchor shackles

CROWN SHACKLE POINT: Device provided on the anchor crown and used to trip the anchor from anchoring point or to connect a second anchor for tandem use.

PALMS OR FLUKES: Parts of the anchor connected to the main body or block on either side of the shank ensuring that the anchor penetrates the bed.

SHANK: An arm (hinged or otherwise) linking the anchor block to the mooring line.

ANCHOR SHACKLE: Shackle fixed permanently to the anchor shank.

STOCK: Bar fitted to an anchor, hinged or otherwise, to ensure stability.

A° = OPENING ANGLE: Angle formed by the inclination of the palms in relation to the shank (for stockless anchors only)

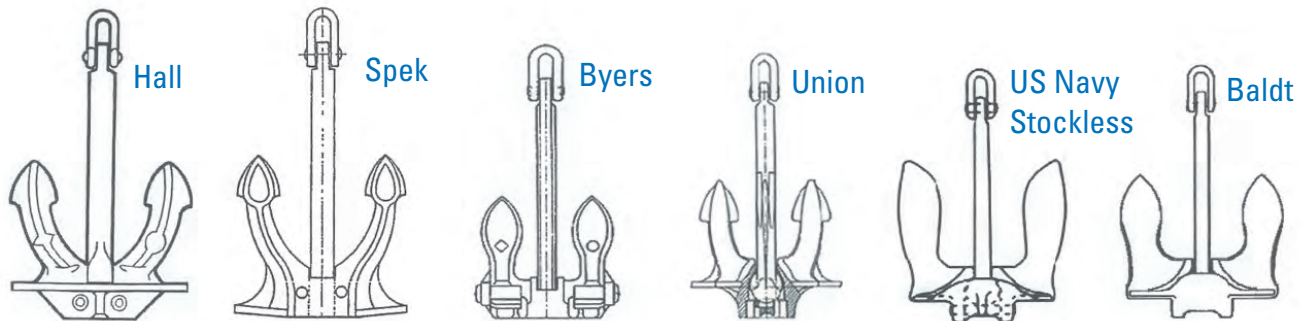
HOLDING POWER: The load needed to cause an anchor to move once it has penetrated and come to rest after dragging.

DRAGGING POWER: The maximum dragging load for a stable anchor and around which it oscillates over a sufficiently long length to allow for the elimination of variations resulting from bed undulations.

HOLDING FORCE: The force which enables one to calculate the resistance offered by an anchor dragging over a length sufficient to enable one to observe possibly several successive overturns or other anomalies resulting from the instability of the anchor (and not to variations in the bed)

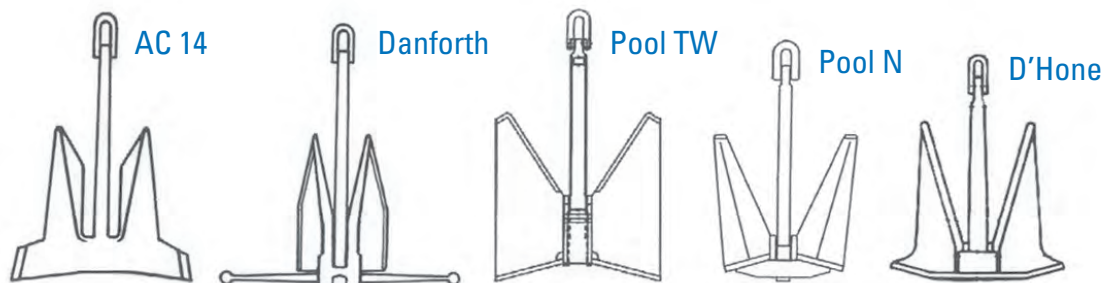


Conventional Anchors

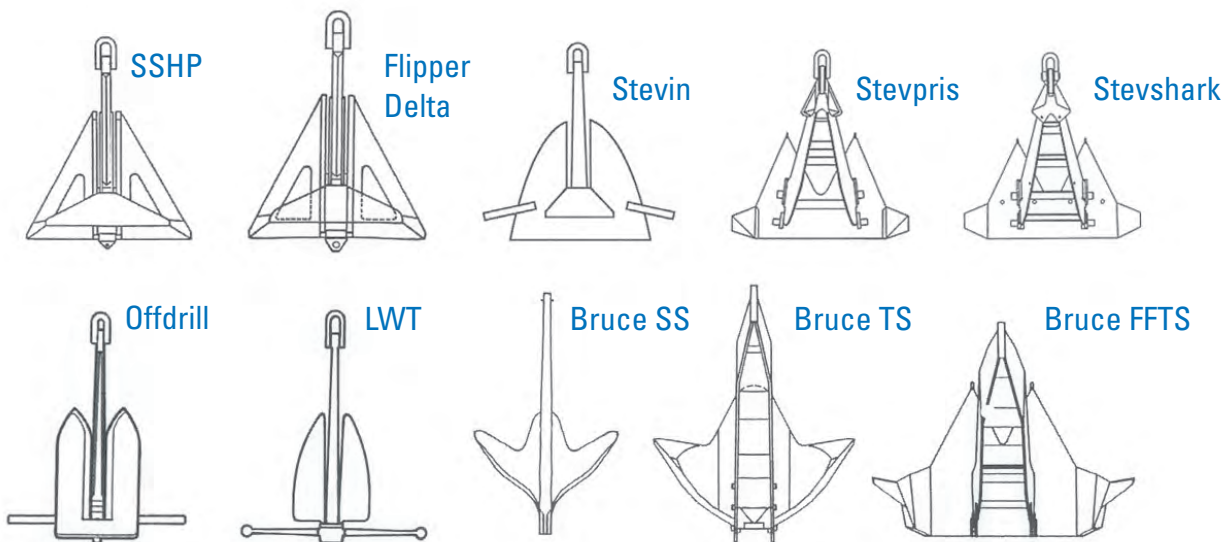


ANCHORS

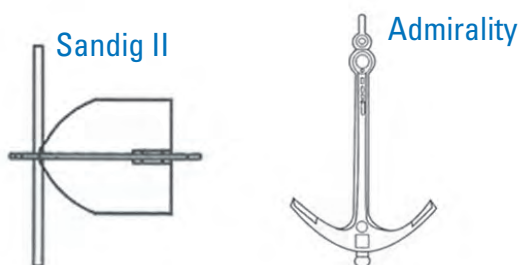
H.H.P Anchors



Offshore Anchors



Other Anchors



Proof Load Test - Conventional Anchors

Mass of anchor kg	Proof test Load tonne-f	Mass of anchor kg	Proof test Load tonne-f	Mass of anchor kg	Proof test Load tonne-f
50	3.0	2000	44.2	7000	98.9
55	3.2	2100	45.9	7200	100.6
60	3.5	2200	47.5	7400	102.1
65	3.6	2300	49.0	7600	103.8
70	3.8	2400	50.4	7800	105.4
75	4.0	2500	52.0	8000	107
80	4.2	2600	53.4	8200	108.7
90	4.5	2700	54.7	8400	109.9
100	4.8	2800	56.1	8600	111.0
120	5.4	2900	57.5	8800	112.0
140	6.0	3000	58.8	9000	113.0
160	6.5	3100	60.0	9200	114.0
180	7.0	3200	61.3	9400	115.0
200	7.5	3300	62.5	9600	117.0
225	8.1	3400	63.7	9800	119.0
250	8.7	3500	64.8	10000	120.0
275	9.4	3600	65.7	10500	123.0
300	10.0	3700	66.9	11000	126.0
325	10.6	3800	67.9	11500	129.0
350	11.2	3900	69.0	12000	133.0
375	11.8	4000	70.0	12500	137.0
400	12.4	4100	70.9	13000	141.0
425	12.9	4200	72.0	13500	144.0
450	13.5	4300	73.0	14000	148.0
475	14.0	4400	74.0	14500	151.0
500	14.6	4500	74.9	15000	155.0
550	15.8	4600	75.6	15500	158.0
600	16.9	4700	76.7	16000	162.0
650	18.0	4800	77.5	16500	165.0
700	19.2	4900	78.4	17000	169.0
750	20.3	5000	79.2	17500	172.0
800	21.5	5100	80.1	18000	175.0
850	22.5	5200	81.2	18500	179.0
900	23.5	5300	82.5	19000	181.0
950	24.7	5400	83.4	19500	183.0
1000	25.7	5500	84.3	20000	187.0
1050	26.7	5600	85.2	21000	194.0
1100	27.8	5700	86.1	22000	199.0
1150	28.8	5800	87.3	23000	206.0
1200	29.8	5900	88.3	24000	211.0
1250	30.8	6000	89.4	25000	217.0
1300	31.8	6100	90.4	26000	223.0
1350	32.7	6200	91.4	27000	229.0
1400	33.6	6300	92.6	28000	235.0
1450	34.7	6400	93.5	29000	240.0
1500	35.6	6500	94.5	30000	246.0
1600	37.4	6600	95.4	31000	251.0
1700	39.1	6700	96.3	32000	257.0
1800	40.9	6800	97.1	34000	267.0
1900	42.6	6900	98.0	36000	278.0

* Proof loads for intermediate mass are to be determined by linear interpolation.

NOTES

1. Where high holding power anchors have a mass exceeding 36000kg, the proof loads are to be taken as 0.250 (mass of anchor in kg) tonne-f, but not less than 278.0 tonne-f.
2. Where ordinary anchors have a mass exceeding 48000kg, the proof loads are to be taken as 0.210 (actual mass of anchor in kg) tonne-f, but not less than 278.0 tonne-f.



Proof Load Test — HHP Anchors

Mass of anchor kg	Proof test Load tonne-f	Mass of anchor kg	Proof test Load tonne-f	Mass of anchor kg	Proof test Load tonne-f
50	3.0	2000	44.2	7000	98.9
55	3.2	2100	45.9	7200	100.6
60	3.5	2200	47.5	7400	102.1
65	3.6	2300	49.0	7600	103.8
70	3.8	2400	50.4	7800	105.4
75	4.0	2500	52.0	8000	107
80	4.2	2600	53.4	8200	108.7
90	4.5	2700	54.7	8400	109.9
100	4.8	2800	56.1	8600	111.0
120	5.4	2900	57.5	8800	112.0
140	6.0	3000	58.8	9000	113.0
160	6.5	3100	60.0	9200	114.0
180	7.0	3200	61.3	9400	115.0
200	7.5	3300	62.5	9600	117.0
225	8.1	3400	63.7	9800	119.0
250	8.7	3500	64.8	10000	120.0
275	9.4	3600	65.7	10500	123.0
300	10.0	3700	66.9	11000	126.0
325	10.6	3800	67.9	11500	129.0
350	11.2	3900	69.0	12000	133.0
375	11.8	4000	70.0	12500	137.0
400	12.4	4100	70.9	13000	141.0
425	12.9	4200	72.0	13500	144.0
450	13.5	4300	73.0	14000	148.0
475	14.0	4400	74.0	14500	151.0
500	14.6	4500	74.9	15000	155.0
550	15.8	4600	75.6	15500	158.0
600	16.9	4700	76.7	16000	162.0
650	18.0	4800	77.5	16500	165.0
700	19.2	4900	78.4	17000	169.0
750	20.3	5000	79.2	17500	172.0
800	21.5	5100	80.1	18000	175.0
850	22.5	5200	81.2	18500	179.0
900	23.5	5300	82.5	19000	181.0
950	24.7	5400	83.4	19500	183.0
1000	25.7	5500	84.3	20000	187.0
1050	26.7	5600	85.2	21000	194.0
1100	27.8	5700	86.1	22000	199.0
1150	28.8	5800	87.3	23000	206.0
1200	29.8	5900	88.3	24000	211.0
1250	30.8	6000	89.4	25000	217.0
1300	31.8	6100	90.4	26000	223.0
1350	32.7	6200	91.4	27000	229.0
1400	33.6	6300	92.6	28000	235.0
1450	34.7	6400	93.5	29000	240.0
1500	35.6	6500	94.5	30000	246.0
1600	37.4	6600	95.4	31000	251.0
1700	39.1	6700	96.3	32000	257.0
1800	40.9	6800	97.1	34000	267.0
1900	42.6	6900	98.0	36000	278.0

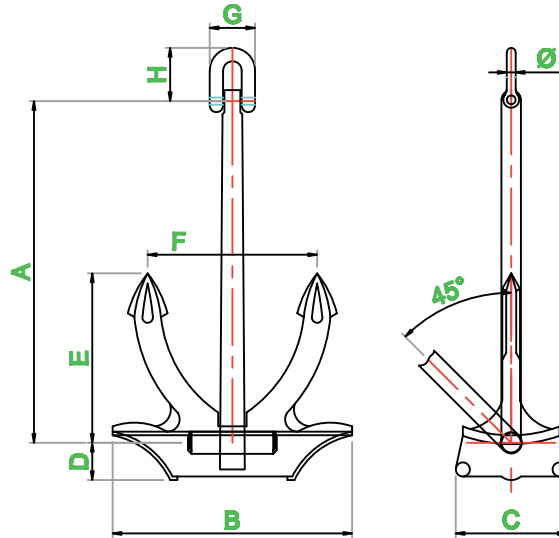
ANCHORS

* Proof loads for intermediate mass are to be determined by linear interpolation.

NOTES

1. Where high holding power anchors have a mass exceeding 36000kg, the proof loads are to be taken as 0.250 (mass of anchor in kg) tonne-f, but not less than 278.0 tonne-f.
2. Where ordinary anchors have a mass exceeding 48000kg, the proof loads are to be taken as 0.210 (actual mass of anchor in kg) tonne-f, but not less than 278.0 tonne-f.

MAK-HL Hall Type Stockless Anchor



Weight	A	B	C	D	E	F	G	H	Ø
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
10	385	270	125	42	191	191	51	60	15
16	410	316	146	49	223	223	57	72	16
25	476	367	169	57	259	259	74	84	20
35	533	411	189	64	290	290	80	98	22
50	599	464	214	71	325	325	80	98	22
65	658	505	233	78	355	355	88	115	24
75	690	530	244	82	374	374	88	115	24
100	760	582	270	90	410	410	88	115	24
125	814	629	290	97	443	443	100	130	28
150	866	670	308	103	470	470	100	130	28
200	952	735	339	114	518	518	113	145	32
220	982	759	350	117	534	534	113	145	32
250	1019	784	361	121	552	552	125	160	36
300	1095	844	388	130	595	595	139	175	40
360	1160	898	412	138	630	630	139	175	40
420	1255	967	444	149	675	675	152	192	45
480	1300	1000	460	154	700	700	167	215	48
570	1380	1060	490	164	745	745	167	215	48
660	1422	1096	506	169	769	769	175	235	50
700	1453	1119	516	172	784	784	175	235	50
780	1506	1160	535	178	813	813	175	235	50
900	1580	1220	560	188	855	855	183	255	50

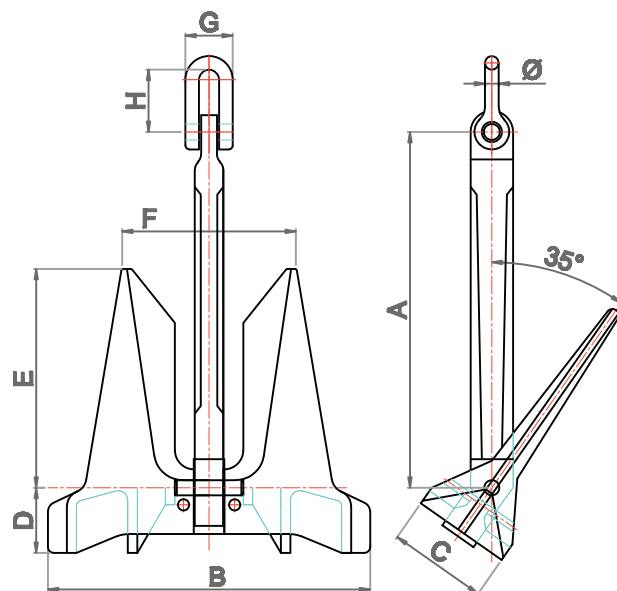
Weight	A	B	C	D	E	F	G	H	Ø
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
1020	1645	1268	584	195	891	891	183	255	50
1290	1778	1374	630	211	965	965	216	280	62
1500	1869	1447	664	222	1015	1015	216	280	62
1740	1966	1517	698	234	1068	1068	238	310	68
2000	2058	1590	732	245	1120	1120	238	310	68
2280	2150	1657	763	255	1165	1165	260	340	74
2460	2207	1700	784	262	1194	1194	260	340	74
3000	2374	1832	841	282	1283	1283	284	360	82
3540	2490	1926	883	295	1349	1349	287	380	82
4000	2610	2008	924	309	1406	1406	310	385	90
4500	2712	2093	962	322	1465	1465	316	410	90
4890	2769	2135	984	329	1498	1498	346	415	100
5000	2790	2150	991	331	1510	1510	346	415	100
6000	2965	2284	1054	352	1605	1605	350	450	100
6900	3100	2393	1105	369	1681	1681	370	480	110
7800	3235	2493	1152	385	1752	1752	380	500	110
8775	3355	2585	1195	399	1816	1816	400	540	117
9072	3392	2615	1209	404	1837	1837	421	580	124
9900	3502	2699	1248	417	1896	1896	421	580	124
11100	3638	2803	1297	433	1970	1970	437	600	130
15400	4056	3126	1446	483	2199	2199	498	680	150
16100	4117	3173	1468	490	2232	2232	498	680	150



MAK-AC AC-14 H.H.P. Stockless Anchor

(Part 1 of 2)

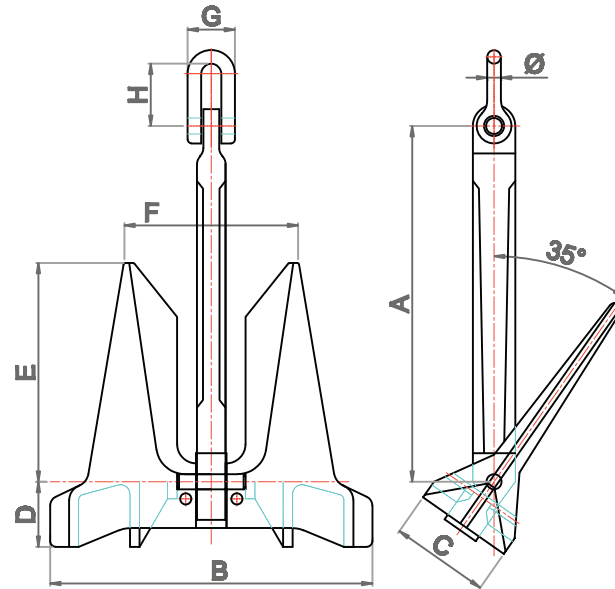
ANCHORS



Weight	A	B	C	D	E	F	G	H	Ø
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	590	529	164	107	359	283	80	98	22
75	677	605	188	122	411	324	88	115	24
90	718	643	199	130	437	344	-	-	-
100	745	666	207	135	452	357	88	115	24
135	821	737	228	143	500	394	100	130	28
180	904	811	251	157	550	434	-	-	-
225	974	874	270	169	593	468	125	160	36
270	1006	910	278	185	617	488	-	-	-
315	1072	962	297	195	653	515	139	175	40
340	1109	995	307	192	675	533	-	-	-
360	1109	995	307	192	675	533	139	175	40
430	1194	1071	331	206	727	574	152	192	45
460	1227	1101	340	212	747	590	167	215	48
495	1227	1101	340	212	747	590	167	215	48
544	1317	1172	363	237	795	627	167	215	48
585	1360	1221	378	236	828	654	167	215	48
675	1398	1254	387	242	851	672	175	235	50
750	1483	1304	404	264	885	698	175	235	50
765	1483	1267	391	244	860	679	-	-	-
855	1520	1363	423	267	925	729	183	255	50
910	1540	1385	427	270	938	740	-	-	-
970	1590	1425	440	275	968	764	-	-	-
1000	1590	1425	440	275	968	764	183	255	50

Weight	A	B	C	D	E	F	G	H	Ø
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
1080	1590	1425	440	275	968	764	183	255	50
1140	1660	1490	460	287	1011	798	-	-	-
1195	1660	1490	465	287	1011	798	216	280	62
1305	1761	150	488	305	1072	846	216	280	62
1360	1761	1580	488	305	1072	846	-	-	-
1440	1795	1610	497	311	1093	862	216	280	62
1575	1855	1665	514	321	1130	892	238	310	68
1590	1855	1665	514	321	1130	892	238	310	68
1710	1891	1697	524	327	1152	910	-	-	-
1820	1940	1741	538	336	1182	933	238	310	68
1845	1940	1741	538	336	1182	933	238	310	68
1980	1940	1741	538	336	1182	933	238	310	68
2040	2016	1809	559	349	1227	969	-	-	-
2140	2016	1809	559	349	1227	969	-	-	-
2270	2089	1874	579	362	1272	1004	-	-	-
2295	2089	1874	579	362	1272	1004	-	-	-
2475	2150	1929	596	373	1309	1033	260	340	74
2655	2218	1991	615	384	1351	1066	-	-	-
2720	2218	1991	615	384	1351	1066	-	-	-
2835	2249	2018	623	390	1370	1081	-	-	-
3040	2302	2066	638	399	1402	1107	284	360	82
3240	2352	2110	652	407	1432	1130	287	380	82
3445	2400	2154	665	415	1462	1154	-	-	-

MAK-AC AC-14 H.H.P. Stockless Anchor (Part 2 of 2)

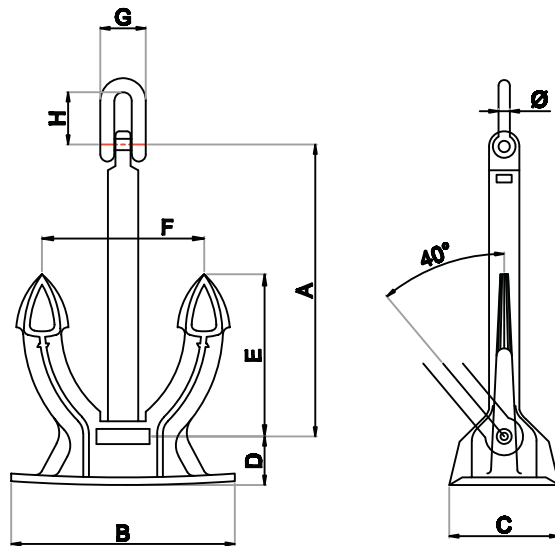


Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
3670	2451	2200	680	424	1493	1178	-	-	-
3940	2510	2252	696	434	1529	1207	310	385	90
4210	2566	2303	711	444	1563	1234	-	-	-
4500	2624	2355	727	454	1598	1261	316	410	90
4840	2688	2412	745	465	1637	1292	346	415	100
5175	2749	2467	762	476	1674	1321	350	450	100
5515	2808	2520	778	486	1710	1350	-	-	-
5575	2808	2520	778	486	1710	1350	-	-	-
5850	2864	2570	794	496	1744	1376	350	450	100
6225	2923	2623	810	506	1780	1405	370	480	110
6525	2970	2665	823	514	1808	1428	-	-	-
6600	2981	2675	827	516	1815	1433	-	-	-
6975	3042	2730	843	527	1853	1462	380	500	110
7015	3042	2730	843	527	1853	1462	-	-	-
7425	3100	2782	859	537	1888	1490	-	-	-
7875	3162	2837	876	547	1925	1520	380	500	110
8325	3221	2890	893	558	1961	1548	400	540	117
8775	3278	2942	909	567	1996	1576	400	540	117
9225	3333	2991	924	577	2030	1602	-	-	-
9675	3386	3039	939	586	2062	1628	421	580	124

Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
10125	3438	3085	953	595	2094	1653	-	-	-
10575	3488	3130	967	604	2124	1677	-	-	-
10695	3501	3141	970	606	2132	1683	-	-	-
11025	3537	3174	981	612	2154	1700	-	-	-
11250	3561	3196	987	616	2169	1712	-	-	-
11550	3592	3224	996	622	2188	1727	452	620	135
11850	3623	3251	1004	627	2206	1742	-	-	-
12075	3646	3272	1011	631	2220	1753	452	620	135
12525	3691	3312	1023	639	2248	1774	-	-	-
12675	3705	3325	1027	641	2256	1781	468	648	148
13200	3756	3370	1041	650	2287	1805	-	-	-
13350	3770	3383	1045	653	2296	1812	-	-	-
13875	3819	3426	1059	661	2326	1836	-	-	-
14100	3839	3445	1064	665	2338	1846	-	-	-
15000	3919	3517	1086	678	2387	1884	-	-	-
16125	4015	3603	1113	695	2445	1930	-	-	-
17250	4106	3685	1138	711	2501	1974	-	-	-
18375	4194	3763	1163	726	2554	2016	-	-	-
19500	4278	3839	1186	740	2605	2056	534	730	160
24750	2150	1929	596	373	1309	1033	260	340	740

MAK-SP Spek Anchor

ANCHORS

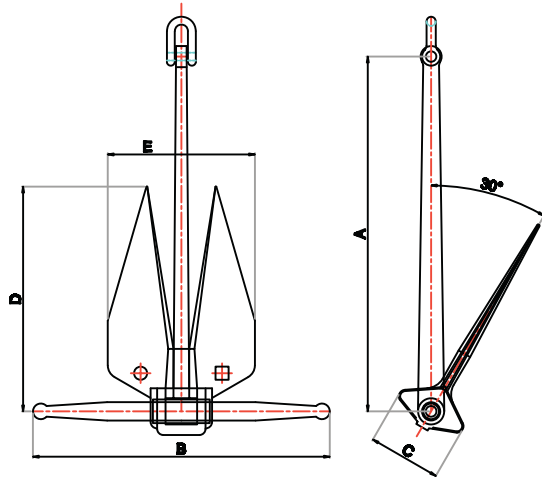


Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	537	411	185	89	298	298	80	98	22
240	900	690	300	150	500	500	125	160	36
300	990	760	330	166	550	550	139	175	40
360	1080	828	360	180	600	600	139	175	40
420	1080	828	360	180	600	600	152	192	45
570	1170	900	390	196	650	650	167	215	48
600	1260	962	420	210	700	700	167	215	48
660	1260	962	420	210	700	700	175	235	50
780	1350	1032	450	225	750	750	175	235	50
900	1440	1100	480	240	800	800	183	255	50
1020	1530	1170	510	252	850	850	183	255	50
1140	1620	1240	540	268	900	900	216	280	62
1290	1710	1420	540	268	900	900	216	280	62
1440	1710	1300	570	279	950	950	216	280	62
1740	1800	1454	600	300	1000	1000	238	310	68
2100	1890	1454	630	312	1050	1050	260	340	74
2280	-	-	-	-	-	-	-	-	-
2460	2010	1514	660	324	1100	1100	260	340	74
2640	2070	1584	690	352	1150	1150	284	360	82
2850	2070	1584	690	352	1150	1150	284	360	82
3060	2160	1650	720	360	1200	1200	284	360	82
3300	2160	1650	720	360	1200	1200	287	380	82

Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
3540	2350	1650	720	360	1200	1200	287	380	82
3780	2430	1850	810	393	1350	1350	310	385	90
4050	2430	1850	810	393	1350	1350	310	385	90
4590	2520	1926	852	413	1400	1400	346	415	100
4890	2520	1926	852	413	1400	1400	346	415	100
5250	2610	2000	870	414	1450	1450	350	450	100
5610	2610	2000	870	414	1450	1450	350	450	100
6000	2700	2060	900	446	1500	1500	350	450	100
6450	2700	2060	900	446	1500	1500	370	480	110
6900	2890	2138	930	456	1550	1550	370	480	110
4500	2920	2138	930	456	1550	1550	380	500	110
8300	2754	2332	1020	530	1680	1700	-	-	-
8700	3060	2332	1020	510	1700	1700	400	540	117
9300	3060	2332	1020	510	1700	1700	421	580	124
9900	3160	2332	1020	510	1700	1700	421	580	124
10500	3190	2440	1060	531	1770	1770	437	600	130
13500	3440	2632	1146	573	1910	1910	468	640	140
15400	3690	2824	1230	615	2050	2050	498	680	150
17800	3920	2922	1270	636	2120	2120	515	700	155
20000	4070	3028	1314	657	2190	2190	534	730	160
29000	4621	3438	1494	748	2494	2494	611	820	185

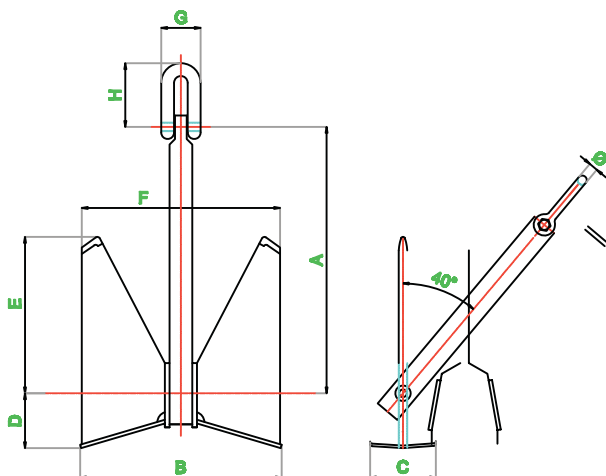
MORDEC™ ANCHORS

MAK-DF Danforth Anchor



Weight		Dimension				
lbs	kgs	A mm	B mm	C mm	D mm	E mm
300	135	1350	1130	275	820	560
500	225	1600	1340	325	975	665
750	340	1720	1480	370	1000	720
1000	455	1830	1580	410	1100	760
1500	680	1955	1690	475	1180	815
2000	910	2100	1820	525	1275	900
2500	1135	2260	2140	5960	1350	930
3000	1360	2390	2260	595	1440	990
4000	1820	2640	2550	660	1590	1050
5000	2270	2780	2700	710	1650	1170
6000	2730	2960	2810	720	1780	1200
7000	3180	3120	2960	790	1880	1260
8000	3635	3260	3090	825	1960	1320
9000	4080	3380	3210	860	2040	1370
10000	4540	3510	3330	890	2100	1420
12000	5445	3730	3540	945	2240	1510
14000	6350	3920	3720	995	2360	1590
16000	7260	4100	4000	1040	2470	1660
18000	8165	4270	4080	1080	2560	1730
20000	9075	4370	4150	1110	2620	1770
25000	11345	4710	4470	1195	2820	1910
30000	13610	5000	4750	1270	3000	2025

MAK-TW Pool TW Anchor (Part 1 of 2)



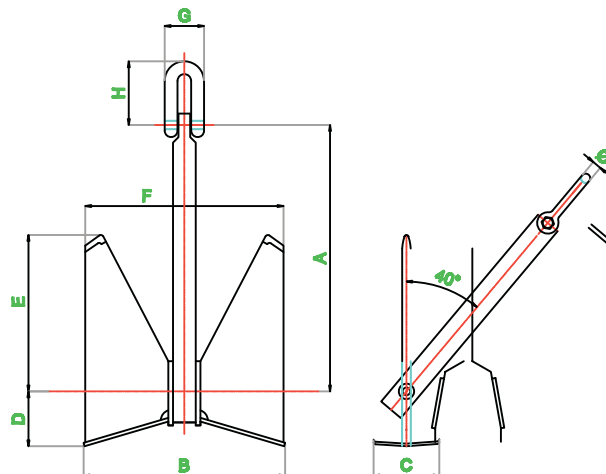
Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
60	650	539	203	140	420	650	90	120	22
75	700	581	215	151	452	700	90	120	22
90	712	594	224	160	458	712	90	120	22
105	771	637	239	169	501	771	105	142	28
135	815	674	255	178	528	815	105	142	28
160	895	747	286	194	581	895	115	157	32
180	937	780	297	201	610	937	115	157	32
225	982	821	312	224	641	982	125	174	36
270	1080	895	335	230	700	1080	125	174	36
300	1080	898	336	235	701	1080	125	174	36
360	1175	980	370	258	766	1175	140	201	40
430	1260	1040	393	274	818	1260	140	201	40
495	1295	1078	402	283	842	1295	140	201	40
585	1388	1149	436	302	899	1388	175	236	50
675	1465	1205	454	315	943	1456	175	236	50
765	1518	1256	470	328	984	1518	175	236	50
855	1575	1306	496	340	1020	1575	225	306	60
970	1642	1360	513	351	1064	1642	225	306	60
1080	1703	1410	530	368	1103	1703	225	306	60
1195	1730	1435	537	377	1123	1730	255	306	60
1305	1814	1490	558	390	1175	1490	225	306	60
1440	1875	1554	585	402	1218	1554	225	306	60



MAK-TW Pool TW Anchor

(Part 2 of 2)

ANCHORS

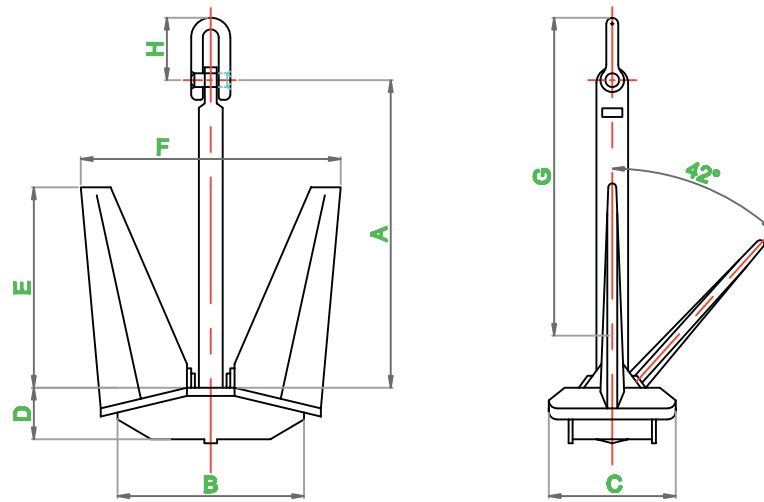


Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
1575	1931	1594	600	418	1250	1594	255	361	75
1710	1985	1635	614	429	1285	1635	255	361	75
1845	2035	1684	638	443	1315	1684	255	361	75
1980	2088	1733	652	451	1359	1733	255	361	75
2140	2138	1765	664	463	1385	1765	255	361	75
2295	2190	1802	678	473	1418	1802	255	361	75
2475	2240	1860	705	487	1453	1860	290	400	80
2655	2998	1900	716	497	1486	1900	290	400	80
2835	2350	1945	730	510	1521	1945	290	400	80
3040	2404	1984	744	520	1558	1984	290	400	80
3240	2456	2036	768	531	1590	2036	290	400	80
3445	2507	2070	782	540	1628	2070	290	400	80
3670	2560	2110	795	556	1658	2110	360	500	90
3940	2621	2152	802	563	1697	2152	360	500	90
4210	2680	2218	838	585	1735	2218	360	500	90
4500	2740	2264	854	596	1775	2264	360	500	90
4840	2800	2316	868	610	1812	2316	400	550	100
5175	2829	2334	876	615	1832	2334	400	550	100

Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
5515	2921	2412	911	631	1893	2412	400	550	100
5850	2948	2439	918	642	1909	2439	400	550	100
6225	3033	2509	940	659	1964	2509	400	550	100
6975	3145	2623	990	675	2047	2623	400	550	100
7875	3264	2695	1012	709	2114	2695	470	660	130
8325	3340	2757	1041	724	2163	2757	470	660	130
8775	3381	2797	1052	737	2190	2797	470	660	130
9225	3453	2865	1092	756	2236	2865	470	660	130
9675	3497	2905	1109	768	2272	2905	500	700	140
10125	3552	2941	1126	780	2307	2941	500	700	140
10575	3591	2979	1142	791	2341	2979	500	700	140
11025	3658	3027	1158	802	2374	3027	540	750	150
12075	3784	3121	1174	813	2407	3121	540	750	150
12675	3829	3161	1196	826	2446	3161	540	750	150
13350	3903	3221	1214	840	2489	3221	570	800	160
14100	4010	3295	1236	855	2535	3295	570	800	160
15000	4057	3357	1262	873	2588	3357	570	800	160
16125	4170	3443	1293	894	2651	3443	625	870	175

The measurements may vary between different models.

MAK-PN Pool N Anchor



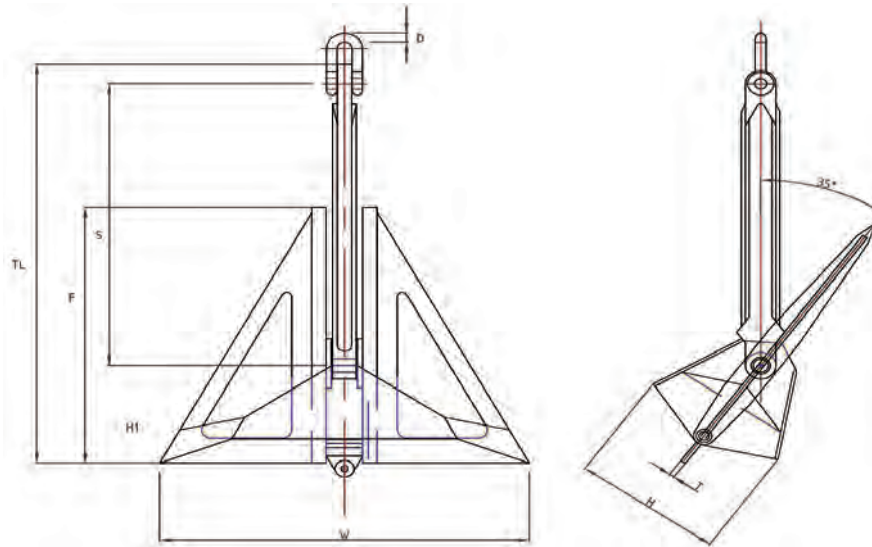
Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
320	1140	820	465	190	745	965	1110	200	38
360	1190	840	480	195	780	1005	1150	200	38
400	1230	885	500	205	805	1040	1190	200	38
440	1270	900	510	201	830	1075	1230	240	45
480	1305	940	535	215	855	1110	1260	240	45
520	1340	960	555	225	875	1140	1300	240	45
560	1375	975	565	230	900	1165	1330	240	45
600	1410	1000	575	235	920	1185	1360	250	50
640	1440	1035	585	240	940	1220	1390	250	50
720	1495	1065	610	250	960	1270	1450	250	50
800	1550	1100	615	255	1015	1310	1490	250	50
900	1615	1145	645	270	1050	1365	1590	300	60
1000	1670	1200	670	275	1090	1410	1635	300	60
1125	1730	1240	730	288	1135	1465	1670	300	60
1250	1775	1275	730	295	1160	1505	1710	300	60
1500	1910	1370	765	315	1250	1615	1840	300	60
1750	2000	1440	830	335	1310	1700	1930	350	70
2000	2090	1500	840	345	1370	1770	2100	350	70
2100	2090	1490	770	320	1360	1780	2040	350	70
2350	2160	1540	800	330	1410	1850	2140	400	80
2600	2240	1600	830	340	1460	1910	2210	400	80
2900	2320	1650	855	350	1510	1980	2270	400	80

Weight	A	B	C	D	E	F	G	H	∅
kgs	mm	mm	mm	mm	mm	mm	mm	mm	mm
3200	2390	1700	885	360	1560	2040	2330	400	80
3500	2470	1760	910	380	1610	2110	2440	450	90
3900	2580	1820	945	390	1670	2190	2540	450	90
4300	2650	1890	980	400	1730	2260	2590	450	90
4750	2730	1950	1010	420	1780	2330	2700	500	100
5250	2820	2010	1040	430	1840	2410	2780	500	100
5800	2910	2080	1080	450	1900	2490	2900	550	110
6400	3010	2150	1110	460	1960	2570	2980	550	110
7050	3110	2220	1150	470	2030	2660	3110	600	120
7800	3250	2290	1190	490	2100	2750	3280	650	130
8600	3320	2370	1225	510	2160	2840	3330	650	130
9500	3430	2450	1270	520	2240	2930	3470	700	140
10500	3550	2530	1310	540	2310	3030	3610	750	150
11600	3670	2610	1355	560	2390	3130	3710	750	150
12800	3790	2700	1400	580	2470	3240	3860	800	160
14200	3920	2790	1450	600	2550	3350	3960	800	160
15700	4030	2880	1490	610	2630	3450	4120	870	175
17200	4150	2960	1540	630	2710	3550	4220	870	175
18900	4280	3050	1580	650	2800	3660	4320	870	175
20800	4420	3150	1630	670	2890	3780	4520	930	185
22800	4570	3260	1690	700	2980	3900	4620	930	185

The measurements may vary between different models.



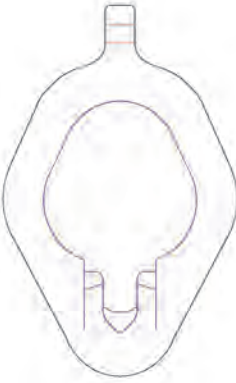
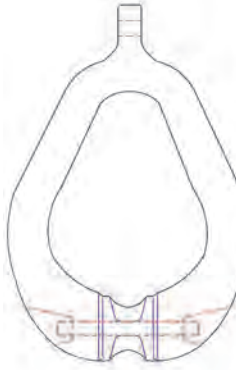
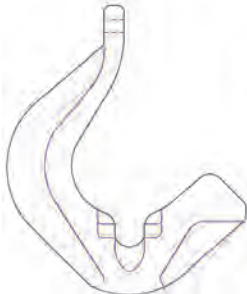
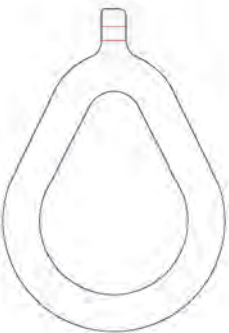
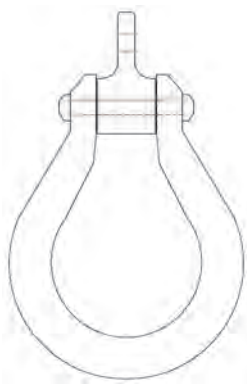
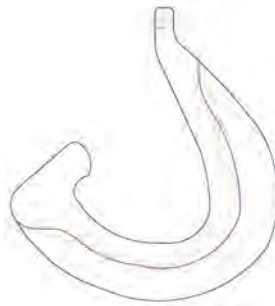
MAK-DT Delta Anchor



ANCHORS

Weight Kg	Width W	Fluke F	Height H	Shank S	Total Length TL	Shackle Dia D	Eye T
500	1500	1200	570	1350	1800	52	30
750	1720	1375	650	1550	2060	52	40
1000	1960	1560	740	1755	2305	52	50
1500	2250	1800	840	2025	2660	60	50
2000	2470	2000	930	2250	2960	70	60
2500	2660	2130	1005	2395	3150	70	60
3000	2830	2285	1070	2565	3380	80	60
3500	3000	2400	1120	2700	3550	80	70
4000	3180	2560	1190	2880	3790	90	70
5000	3300	2660	1260	2995	3945	100	70
6000	3560	2870	1345	3230	4250	100	80
7000	3750	2995	1405	3365	4440	110	90
7500	3850	3080	1435	3465	4565	110	90
9000	4130	3320	1550	3735	4925	125	100
10000	4270	3400	1600	3825	5040	125	100
12000	4530	3600	1705	4050	5335	130	110
13500	4670	3730	1765	4195	5535	140	110
15000	4845	3875	1830	4355	5735	140	120
18000	5165	4120	1935	4635	6110	150	120
20000	5410	4320	2010	4860	6405	160	130
22500	5490	4360	2060	4905	6470	170	140
27500	5980	4785	2245	5385	7095	180	140
32500	6200	4930	2310	5540	7320	165 GP	150
40000	6650	5290	2480	5945	7850	175 GP	150
50000	7150	5690	2670	6390	8440	195 GP	180
60000	7600	6040	2830	6800	9000	210 GP	190
75000	8200	6560	3100	7380	9430	220 GP	220

Accessories for Anchor Retrieval

 <p>The Permanent Chain-Lock Chaser</p> <p>Increased rig dimensions and anchor forces lead to higher requirements for the breaking-out force. Whilst the greater force may be available with the large ahv's, the need was seen for a chaser which could break-out an anchor without having to contend with the force in the mooring which opposes breaking out. The chain-lock Chaser, currently under development and field trials, fulfills this requirement. By locking on the chain ahead of the anchor shackle, the mooring tension can be completely relaxed, and the ahv has to deal only with the weight of the anchor and its resistance to break-out.</p>	 <p>The Permanent Wire Chaser</p> <p>The permanent wire chaser was introduced when the rigs moved to yet deeper waters, and composite wire/chain mooring systems became necessary. The chaser incorporates a 'rocker' which is centrally mounted on a hinge bolt. The rocker has two opposing wire grooves, and when the chaser is engaged with the mooring cable, the wire slides through one of these grooves irrespective of the angle which the chaser makes with the mooring. The large radius at the base of the wire groove assists in reducing wear of the rocker and avoids severe 'opening' of the lay of the wire if a loop of wire is pulled during the handling process. The material of the rocker is not hard as the material of the wire. This means that wear is taken by the rocker without damage to the wire and, because the rocker is easily removable, replacement is relatively inexpensive. The permanent wire chaser is easily detachable by withdrawal and re-assembly of the hinge bolt and rocker. Some designs of wire chaser incorporate fully rotating rollers over which the mooring wire passes. To be effective such rollers need to be of large diameter and require more power at the ahv to penetrate the sea bed and reach the anchor.</p>
 <p>The J-Lock Chaser</p> <p>The J-lock chaser is based on the same principle as the permanent lock chaser. However, the J-shape permits catching the anchor chain after the anchor has been installed. This means that this chaser can be used to assist in unforeseen circumstances. The well-balanced and 'guiding' design of the chaser enables catching the chain when the chaser approaches a mooring at the point where the catenary angle is as high as 45 degrees.</p>	 <p>The Permanent Chain Chaser</p> <p>As a practical alternative to the buoy and pennant, permanent chain chasers were introduced. Originally, simple shackles were used; these were followed by special cast oval rings which were attached to a pennant by a 'bight' of chain and shackle. Very soon afterwards the pear-shaped chaser with shackle eye was introduced. The design of these chasers offered superior sliding and penetration properties.</p>
 <p>The Detachable Chain Chaser</p> <p>For rigs in service it is sometimes preferred to equip the mooring with a chaser which does not require the anchor chain to be broken and re-made. Detachable chain chaser were introduced to satisfy this need. The withdrawal and replacement of the single hinge bolt permits easy assembly of the chaser on the mooring cable.</p>	 <p>The J-Chaser</p> <p>The 'J' chain chaser is developed over the stern roller of an ahv at approximately 1/3 of the water depth. The chaser is towed across the mooring catenary until it catches the chain. It is then towed into contact with the anchor shank/fluke for the anchor break-out and retrieval.</p>